

THL-5R Hard Aviation Helmet



Appropriate for use in helicopters equipped with low-resistance radio transmitters or high-resistance radio transmitters (in case of high-resistance radio transmitters it is necessary to use a matching device UD-1).

The helmet

- guarantees proper communication after disconnecting the board communication system or leaving helicopter (with personal radio-phone)
- is equipped with a special receiver system, which is adaptable to various types of radio transmitters used in helicopters
- guarantees proper audibility even if the noise level in the cockpit reaches 120 dB
- protects the user's head against accidental injury and hearing against excessive external noise
- is equipped with a protruded protective visor made of polycarbonate (PC)
- is equipped with a hard shell made of composite materials, as well as an acoustic system with a dynamic microphone
- has a good shock absorption properties (it is resistant to shocks with kinetic energy up to 120 J) and puncture resistance (with energy up to 30 J)
- is equipped with night vision goggles holder

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Acoustic system parameters

- dynamic microphone
 - impedance module $600 \Omega + 45\% -35\%$
 - minimum effectiveness $0,5 \text{ mV/N/m}^2$
- microphone amplifier
 - working frequency range $300 - 3\,500 \text{ Hz}$
 - allowable supply voltage $3 - 14 \text{ V}$
- receiver circuit resistance
 - internal $130 - 1\,130 \Omega$
 - radio - phone 30Ω

Radio

- model ICOM A-23
- frequency range $118,000 - 136,975 \text{ MHz}$
- broadcast coverage approx. 10 km